Second Workshop on Transboundary Flood Risk Management
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Transboundary Flood Risk Management in Bangladesh

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Flood & Flood induced Disasters in Bangladesh

Flood
River Bank Erosion
Flash Flood
Storm Surges/Tidal Flooding

(Source: IWM)
• About 80% of the catchment area is outside the international boundary.

• The rivers of Bangladesh drain run-off of upstream catchments of area about 1.72 Million km².

• Most of the rainfall occurs during monsoon. Hence monsoon flooding here in Bangladesh is a common phenomenon.

• The combined effect of these monsoon flooding and climate change induced increased precipitation and sea level rise from downstream will make Bangladesh highly vulnerable to climate change.

**GBM River Basins**

- **Ganges Basin**
  - Area: 1,087,300 km²

- **Brahmaputra Basin**
  - Area: 543,400 km²

- **Meghna Basin**
  - Area: 82,000 km²

- Bangladesh
  - Area: 147,570 km²
Year-wise Flood Affected Area in Bangladesh, since 1954

Flood 1988

Flood 1998

Source: FFWC
Flood Forecasting and Warning Centre FFWC-Bangladesh provides point-based forecast up to 5-days lead time during May to October every week. After 2014, 29 rivers and 54 stations are covered.
Satellite Data based Flood Forecast in 2014 using JASON-2 with-8 day lead time

Forecast Stations : 9

Brahmaputra Basin 5
- Bahadurabad
- Sariakandi
- Serajgonj
- Aricha
- Elasin Ghat

Ganges Basin 4
- Hardinge Bridge
- Gorai Railway Bridge
- Goalondo
- Bhagyakul